

Listing of Claims

1-40. (canceled)

41. (currently amended): A method of providing an improved audio reproduction derived from an analog recording, the method comprising:

~~providing and digitizing a digitized wideband playback signal derived from an analog recording containing wow/flutter;~~

deriving, without use of a prescribed tone or time-code previously applied and intended to be indicative of timing, a reference signal from within the digitized wideband playback signal, the reference signal being synchronized with the wideband playback signal; an extraneous artifact within the recording;

generating a modulated carrier by at least one of stabilizing and, idealizing, and demodulating the reference signal;

deducing ~~periodic~~ deviations between the modulated carrier and a high-precision clock signal or sampling rate; and

adjusting timing and pitch in the digitized wideband playback signal in response to the deduced ~~periodic~~ deviations, wherein such adjusting comprises establishing a ~~limit in a change in a period of the reference signal, and if the change in the period exceeds the limit, separately then~~ conforming the synchronization timing and pitch of the digitized wideband playback signal to the stabilized, modulated carrier ~~at a time of the recording which occurs after the change, and if the change in the period does not exceed the limit, not separately conforming the synchronization of the digitized wideband playback signal to the stabilized carrier at a time of the recording which occurs after the change,~~

thereby separately adjusting the synchronization before and after the change, thereby producing a wideband playback signal substantially corrected for distortion corresponding to said wow/flutter.

42. (currently amended): The method of claim 41, wherein the reference signal is generated by identifying a reference sound entity which can be derived from the ~~wideband analog playback signal recording~~; and wherein the modulated carrier is generated from a known or preestablished pattern within the reference sound ~~element~~entity.

43. (currently amended): The method of claim 41, further comprising: determining a set of data reflecting ~~the at least one~~ instantaneous deviation between a nominal intermediate frequency and the reference signal; and generating a modulated carrier that reflects the ~~deviations so determined~~at least one instantaneous deviation.

44. (canceled)

45. (canceled)

46. (currently amended): The method of claim ~~45~~41, wherein the reference signal is derived from a bias signal present in the ~~wideband analog recording playback signal~~, and further comprising:

establishing a limit in a change in a period of the reference signal corresponding to the bias signal, and if the change in the period exceeds the limit, separately conforming the synchronization of the digitized wideband playback signal to the carrier corresponding to the bias signal at a time of the digital recording which occurs after the change, thereby separately adjusting the synchronization before and after the change.

47. (currently amended): The method of claim ~~45~~41, further comprising:

extracting a reference sound element which can be derived from the ~~wideband analog playback signal; recording;~~

determining a deviation between ~~the~~ a high-precision clock signal or sampling rate and a pre-established sound pattern for the reference sound element; and

adjusting sound frequencies and timing in the digital domain in accordance with the deviation.

48. (currently amended): The method of claim ~~45~~41, further comprising:

extracting an existing carrier which can be derived from the ~~wideband analog playback signal; recording;~~

determining a deviation between a high-precision clock signal or sampling rate and a corresponding representation of the carrier within the ~~wideband analog playback signal; recording;~~ and

adjusting the digitized wideband playback signal ~~in a digital format~~ according to the deviation.

49. (canceled)

50. (canceled)

51. (currently amended): An electronically readable storage medium, other than a transitory signal, containing data representing digital audio information which has been generated by the method of claim 41.

52. (previously presented): The electronically readable storage medium of claim 51, wherein the medium is an optical disk, a memory card, or a digital audio tape cassette.

53. (previously presented): The electronically readable storage medium of claim 52, further comprising packaging displaying artwork and text which identifies the source of the digital audio information and includes a statement to the effect that the original recording has been digitally remastered or digitally enhanced.